JS - Google APIs - Overview

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A brief overview to working with Google APIs, OAuth 2.0, &c.

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Intro

Google's JS client library enables an app to interact with Google APIs, including Drive &c.

API requests can be made in a number of different ways using the JS client library. The basic pattern is as follows,

- app loads JS client library
- app initialises library with API key, OAuth client ID, and API discovery doc (where applicable)
- app sends request and then processes the response

Common options

There are three common ways to use the JS client library,

- load API discovery document, then assemble request
- use gapi.client.request
- use CORS

Setup

To access Google APIs, you'll need to setup the following prior to coding an app.

- create a Google account (assuming you don't already have one suitable for app development)
- create a Google project using the Google API Console
- enable Google APIs
 - · choose required Google APIs for the project use APIs explorer
 - use the Google API console to choose APIs, select one, then click the enable button
 - · follow the remaining instructions...

App access

Per app, and API, Google defines two permitted level of API access,

- simple API call cannot access a user's private data requires API key
- authorised API call can read and write a user's private data &c. requires OAuth 2.0 credentials

For each app, we can acquire a key and credentials as follows,

- API key
 - in the API console, open the Credentials page
 - choose Create credentials > API key select required key
 - follow guidelines for securing an app's key best practices
- OAuth 2.0 credentials

- in the API console, open the Credentials page
- choose Create credentials > OAuth client ID select appropriate app type